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Peter G. Neumann
March 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 2

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22 Enhanced privacy and authentication for the global system for mobile communications   ◼
Chii-Hwa Lee, Min-Shiang Hwang, Wei-Pang Yang
July 1999 **Wireless Networks**, Volume 5 Issue 4

Full text available: 📄 pdf(204.97 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The Global System for Mobile Communications (GSM) is widely recognized as the modern digital mobile network architecture. Increasing market demands point toward the relevancy of security-related issues in communications. The security requirements of mobile communications for the mobile users include: (1) the authentication of the mobile user and Visitor Location Register/Home Location Register; (2) the data confidentiality between mobile station and Visitor Location Register, and the data c ...

23 New architectures: Invariants: a new design methodology for network architectures   ◼
Bengt Ahlgren, Marcus Brunner, Lars Eggert, Robert Hancock, Stefan Schmid
August 2004 **Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**

Full text available: 📄 pdf(230.28 KB)   Additional Information: full citation, abstract, references, index terms

The first age of Internet architectural thinking concentrated on defining the correct principles for designing a packet-switched network and its application protocol suites. Although these same principles remain valid today, they do not address the question of how to reason about the evolution of the Internet or its interworking with other networks of very different heritages. This paper proposes a complementary methodology, motivated by the view that evolution and interworking flexibility are d ...

Keywords: design methodology, design principles, invariants, network architecture design

24 Using the MAXX simulator for electronic card manufacturing   ◼
Stephen Buckley, Darcy Palmer, Chae An, James Korein, Javad Ahmadi, Peng Si Ow, Urban

Brunner
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Full text available: 🔲 pdf(591.15 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

25 <u>The information furnace: consolidated home control</u>   ▪
Diomidis D. Spinellis
May 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 1
Full text available: 🔲 <u>pdf(488.36 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

   The Information Furnace is a basement-installed PC-type device that integrates existing consumer home-control, infotainment, security and communication technologies to transparently provide accessible and value-added services. A modern home contains a large number of sophisticated devices and technologies. Access to these devices is currently provided through a wide variety of disparate interfaces. As a result, end users face a bewildering array of confusing user-interfaces, access modes a ...

Keywords: Automation, Consumer electronics, Home-control, Multi-modal interfaces

26 <u>Mobility, roaming, and handoff: Fast authentication methods for handovers between</u>   ▪
<u>IEEE 802.11 wireless LANs</u>
M. S. Bargh, R. J. Hulsebosch, E. H. Eertink, A. Prasad, H. Wang, P. Schoo
October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile**
applications and services on WLAN hotspots
Full text available: 🔲 pdf(257.82 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Improving authentication delay is a key issue for achieving seamless handovers across networks and domains. This paper presents an overview of fast authentication methods when roaming within or across IEEE 802.11 Wireless-LANs. Besides this overview, the paper analyses the applicability of IEEE 802.11f and Seamoby solutions to enable fast authentication for inter-domain handovers. The paper proposes a number of possible changes to these solutions (typically in terms of network architectures a ...

Keywords: WLAN, authentication, handover, inter/intra-domain, seamless

27 <u>A flow oriented computer system simulation language</u>   ▪
William R. Franta
January 1971 **Proceedings of the 1971 26th annual conference**
Full text available: 🔲 pdf(1.02 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper describes a language expressly designed for the simulation of operating system software. A carefully selected portion of the modeling machinery has been incorporated into the language so that the user need only be concerned with the operating system logic in constructing the modeling program. The modeling statements, as input to the assembly portion of the package result in the generation of a series of tables and pseudo code segments which are acted upon interpretatively during ...

Keywords: Flow-oriented, Multiprocessing systems, Multiprogramming, Operating system development, Simulation languages, Simulation of operating systems

28 <u>Behavioral Aspects of Text Editors</u>   ▪
David W. Embley, George Nagy

January 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 1
Full text available: pdf(3.44 MB)   Additional Information: full citation, references, citings

29 Complex associations: abstractions in object-oriented modeling
Bent Bruun Kristensen
October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10
Full text available: pdf(1.64 MB)   Additional Information: full citation, abstract, references, citings, index terms

Objects model phenomena and a phenomenon is usually a component. Information characterizing a component is encapsulated and accessible only by its methods. The relations between components are modeled explicitly by means of associations or references. A relation is also a phenomenon and objects can model this type of phenomena too. Components are usually related conceptually in diverse and subtle ways: Some relations are implicitly given and some are local to other more bas ...

30 A card format for reference files in information processing
Mandalay Grems
February 1961 **Communications of the ACM**, Volume 4 Issue 2
Full text available: pdf(773.66 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper proposes a card format suitable for a variety of reference files in information processing. An 80-column IBM card is divided into two fields—reference material field (columns 1-67) and identification field (columns 68-80). The format for the reference material is flexible, while the format for the identification is rigid. The reference material includes basically an index, title, source, class, summary and cross reference for each entry. The identification includes basicall ...

31 Articles: Mobile databases: a selection of open issues and research directions
Guy Bernard, Jalel Ben-othman, Luc Bouganim, Gérôme Canals, Sophie Chabridon, Bruno Defude, Jean Ferrié, Stéphane Gançarski, Rachid Guerraoui, Pascal Molli, Philippe Pucheral, Claudia Roncancio, Patricia Serrano-Alvarado, Patrick Valduriez
June 2004 **ACM SIGMOD Record**, Volume 33 Issue 2
Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references

This paper reports on the main results of a specific action on mobile databases conducted by CNRS in France from October 2001 to December 2002. The objective of this action was to review the state of progress in mobile databases and identify major research directions for the French database community. Rather than provide a survey of all important issues in mobile databases, this paper gives an outline of the directions in which the action participants are now engaged, namely: copy synchronizatio ...

32 KEKOPEN, an open batch processing system at KEK
Y. Banno, H. Hirose, Y. Karita, H. Mawatari, H. Murakami, H. Takahashi, S. Yashiro, H. Yoshiki, N. Hagiwara, Y. Sakurai
July 1980 **Communications of the ACM**, Volume 23 Issue 7
Full text available: pdf(3.92 MB)   Additional Information: full citation, references

Keywords: center administration, center's own coding, open batch, open device, operating system, portability, self-service, staging, tape handling

33 Regular papers: Making sense of reference to the unfamiliar
Helen Seville, Allan Ramsay
July 2000 **Proceedings of the 18th conference on Computational linguistics - Volume 2**

Full text available: pdf(567.90 KB)　　Additional Information: full citation, abstract, references

Computational approaches to reference resolution, like Centering Theory, are best at resolving referring expressions which denote familiar referents. We demonstrate how, by taking a proof-theoretic approach to reference resolution within a Centering-type framework, we are able to make sense of referring expressions for unfamiliar referents. These include, in addition to bridging descriptions, definite descriptions like "the first man" and "the first snowdrops of Spring". We claim that the first ...

34 DRM usability and legal issues: Import/export in digital rights management
Reihaneh Safavi-Naini, Nicholas Paul Sheppard, Takeyuki Uehara
October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**

Full text available: pdf(211.60 KB)　　Additional Information: full citation, abstract, references, index terms

The inherently controlled nature of digital rights management systems does little to promote inter-operability of systems provided by different vendors. In this paper, we consider import and export functionality by which multimedia protected by one digital rights management regime can be made available to a multimedia device that supports a different digital rights management regime, without compromising the protection afforded to the content under the original regime. We first identify speci ...

Keywords: digital rights management, export, import, inter-operability

35 Stimulating cooperation in self-organizing mobile ad hoc networks
Levente Buttyán, Jean-Pierre Hubaux
October 2003 **Mobile Networks and Applications**, Volume 8 Issue 5

Full text available: pdf(289.70 KB)　　Additional Information: full citation, abstract, references, citings, index terms

In military and rescue applications of mobile ad hoc networks, all the nodes belong to the same authority; therefore, they are motivated to cooperate in order to support the basic functions of the network. In this paper, we consider the case when each node is its own authority and tries to maximize the benefits it gets from the network. More precisely, we assume that the nodes are not willing to forward packets for the benefit of other nodes. This problem may arise in civilian applications of mo ...

Keywords: cooperation, mobile ad hoc networking, self-organization

36 Why cryptosystems fail
Ross Anderson
December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

Full text available: pdf(1.38 MB)　　Additional Information: full citation, abstract, references, citings, index terms

Designers of cryptographic systems are at a disadvantage to most other engineers, in that information on how their systems fail is hard to get: their major users have traditionally been government agencies, which are very secretive about their mistakes.In this article, we present the results of a survey of the failure modes of retail banking systems, which constitute the next largest application of cryptology. It turns out that the threat model

commonly used by cryptosystem desig ...

37 J-Sim: A Simulation Environment for Wireless Sensor Networks
Ahmed Sobeih, Wei-Peng Chen, Jennifer C. Hou, Lu-Chuan Kung, Ning Li, Hyuk Lim, Hung-Ying Tyan, Honghai Zhang
April 2005 **Proceedings of the 38th annual Symposium on Simulation**

Full text available: pdf(278.29 KB)   Additional Information: full citation, abstract

Wireless Sensor Networks (WSNs) have gained considerable attention in the past few years. As such, there has been an increasing need for defining and developing simulation frameworks for carrying out high-fidelity WSN simulation. In this paper, we present a modeling and simulation framework for WSNs in J-Sim ¿ an open-source, component-based compositional network simulation environment that is developed entirely in Java. This framework is built upon the autonomous component architecture (ACA) an ...

38 Secure services: JANUS: towards robust and malicious resilient routing in hybrid wireless networks
Bogdan Carbunar, Ioanis Ioannidis, Cristina Nita-Rotaru
October 2004 **Proceedings of the 2004 ACM workshop on Wireless security**

Full text available: pdf(169.26 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we investigate and provide solutions for security threats in the context of hybrid networks consisting of a cellular base station and mobile devices equipped with dual cellular and ad-hoc (802.11b) cards. The cellular connection is used for receiving services (i.e. Internet access) from the base station, while the ad-hoc links are used to improve the quality of the connection. We provide detailed descriptions of several attacks that arbitrarily powerful adversaries, whether outside ...

Keywords: hybrid wireless networks, routing, security

39 Special feature: Report on a working session on security in wireless ad hoc networks
Levente Buttyán, Jean-Pierre Hubaux
January 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 1

Full text available: pdf(2.50 MB)   Additional Information: full citation, references, citings

40 Mobile services and technology track: Like Rome, a mobile operator's empire wasn't built in a day!: a journey through the rise and fall of mobile network operators
Jan Damsgaard, Lucia Marchegiani
March 2004 **Proceedings of the 6th international conference on Electronic commerce**

Full text available: pdf(256.89 KB)   Additional Information: full citation, abstract, references

This research provides insights on the key strategic management issues, which lay the basis of a network operator overall competitive strategy. This is done assuming the perspective of a mobile network operator. Through example stemming mainly from the Danish and Italian mobile markets, our paper proposes a model for the management of mobile services, which resembles a lifecycle model. As the Mobile Management Model resembles the rise and fall of network operators, the reader is accompanied on a ...

Keywords: mobile services diffusion, mobile telecommunication industry, strategic management